Center for Community and Preventive Health

Infectious Disease Epidemiology Section

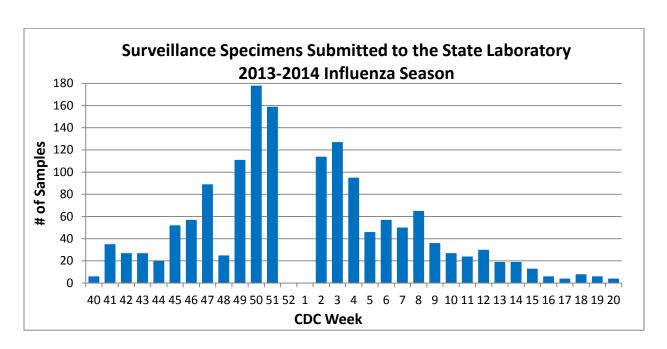
Influenza Virologic Surveillance Handbook

2014 - 2015 Season

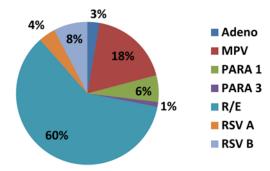
Version 1.0

September 2014





RVP results from State Laboratory, 2013-2014 influenza season

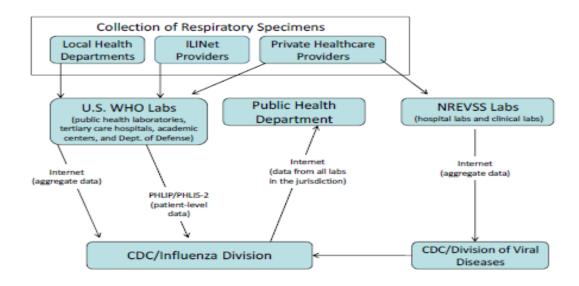


Page 1 of 9

I. INTRODUCTION

Virologic surveillance is the foundation on which national and international influenza surveillance systems are built. The goal of virologic surveillance is to identify and track drift variants of currently circulating influenza virus types and subtypes and to detect the emergence of novel influenza A subtypes in human populations. This information allows for monitoring of the match between vaccine strains and currently circulating viruses and selection of optimal vaccine components each year.

II. DATA FLOW OF THE U.S. VIROLOGIC SURVEILLANCE SYSTEM



III. LOUISIANA VIROLOGIC SURVEILLANCE

Beginning with the 2013-2014 influenza season, the goal is for the Louisiana State Public Health Laboratory to increase samples to meet requirements of the Association of Public Health Laboratories *Influenza Virologic Surveillance Right Size Roadmap*. The increase in sample submission will require regular participation from a core group of surveillance sites statewide. All materials required for sample collection and submission will be provided free of charge and transportation will be coordinated through Express.

Participation in active surveillance will require:

- Collecting a nasal or nasopharyngeal (NP) swab on all patients who present with clinical symptoms resembling influenza-like illness on any one day of the week (or more if the site is willing).
- Packing specimens in an ice chest with proper ice blocks (all provided) for Express pick-up.

New for the 2014-2015 season, all influenza B positives will be further tested at the state public health laboratory to identify the virus lineage: Yamagata or Victoria. A portion of flu positives from active surveillance will be forwarded to CDC for further antigenic characterization and antiviral

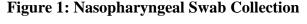
resistance testing. All **flu negative NP swabs** submitted will be tested for other respiratory viruses including Respiratory Syncytial Virus, Parainfluenza, Human Metapneumovirus, and Adenovirus.

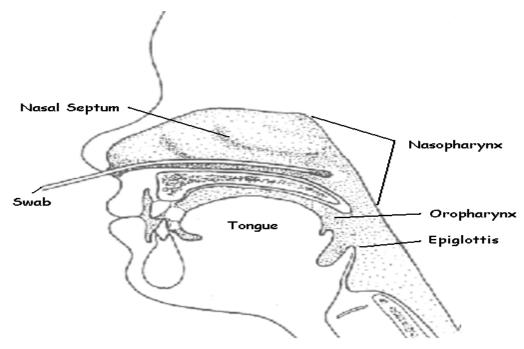
A. Specimen Collection

Nasopharyngeal (NP) swabs, when collected by properly trained personnel are the optimal choice of clinical material. A nasal swab is an acceptable substitute and is the optimal choice for many participating sites.

Nasopharyngeal (NP) swabs

- 1) Optimal timing. Specimens ideally should be collected within 72 hours of influenza-like illness symptom onset (e.g. respiratory symptoms and/or fever) but are acceptable up to 5 days from symptom onset. Specimens should ideally be collected prior to the initiation of antiviral medications but are acceptable after the antiviral therapy has begun.
- 2) Materials. Nasopharyngeal swab (flexible shaft) with rayon tip, viral transport medium. All materials will be provided for participants.
- 3) Swab types. Swab specimens should be collected using only swabs with a synthetic tip, such as nylon or Dacron®, and an aluminum or plastic shaft. Calcium alginate swabs are unacceptable and cotton swabs with wooden shafts are not recommended.
- 4) Collecting the NP swab. Insert swab through the nares parallel to the palate (not upwards, Figure 1) until resistance is encountered or the distance is equivalent to that from the ear to the nostril of the patient. An instructional video from The Joint Commission on NP swab collection can be viewed
 - at: http://www.youtube.com/watch?v=hXohAo1d6tk&feature=youtu.be





B. Specimen Packaging

Refrigerate specimens after collection. Ship specimens refrigerated to be received within 72 hours from collection.



Jise a collection kit containing swabs and viral transport nedia to collect flu specimen.



The swab on the left is for nasal specimens. The swab on the right is for nasopharyngeal.



After collection, place the swab in the tube of viral transport media.



Snap the swab shaft and cap the tube. Double check that your media is in date.



Put the date and time of collection on the tube along with the patient's name.



For each specimen collected, completely fill out a Lab Test Request Form 96.



Place each specimen in a separate compartment of the bubble wrap pouch.



Roll up the bubble wrap sleeve with the specimens. Tape the roll closed.



Each ice chest is furnished with two biohazard transport bags and absorbent strips.



Insert specimen roll into the long pouch. Pull off the liner and press to close.



Fold the lab forms in half and insert them into the outside pouch of the transport bag



Freeze the ice bricks prior to use. Cover the bottom of the ice chest with one brick.



Place the transport bag with samples on top of the first ice brick.



Layer the second ice brick on top of the transport bag with samples.



Tape the ice chest closed. Ship ice chests overnight

C. Lab Test Request Form

Lab Form 96 – Virology needs to accompany all specimens submitted for testing. When you enroll as a participating site, you will be provided with a form with your site information pre-filled.

Lab Test Request Form Revision 12/2009 Virology (*) INDICATES REQUIRED INFORMATION. INCOMPLETE INFORMATION MAY CAUSE SPECIMEN REJECTION.					
*First Name *Last Name		Submitter Information *Facility Name			
*Date of Birth	*Gender	Facility Address			
Patient's Home Address		*City, State *Zip Code			
City, State	Parish	Name of Contact Person			
Medicald Number	Patient ID Number	Phone Fax			
	Specimen	Information			
Submitted Specimen Is From: X Human Animal					
*Collection Date:	Time:	If Frozen, Indicate Date: Time:			
*Specimen Type: X Swab	Aspirate/Wash	Tissue Viral Culture			
Specimen Source: Nasal Oroph Other	harγπx Bronchii Trachea	CSF Blood Acute Serum Stool Convalescent Serum Vamitus			
Additional Information: Mother Follow-up ROSCURIE: Date of Symptom Onset Prenatal Papid HEST JONE Y N; IF WES, RESULT A B No					
All tests listed may not curren		est Information garding test availability, contact the Virology Dept. at 504-219-4676.			
		per certify that the certification of the certifica			
"At Least One Test Must Be Rec	Arbovirus Pan	nel, IFA Hepatitis A			
Respiratory Virus Panel SLE IgM, SLE		IgG. Hepatitis A Total Antibody (Anti-HAV)			
RSV, Influenza, Parain Metapneumovirus, Rhi					
A do	11/FF 1-11 41	WEE IgG Hepatitis B Panel			
Norovirus Real Time RT-PCR Arbovirus Pan					
Norovirus GI and GII	West Nile and	SLE Hepatitis B Immunization (Anti-HBs)			
Influenza Real Time F Detection and Charact	terization HCG, uE3, AFI				
Incluses	Inhibin A	Hepatitis C Total Antibody (Anti-HCV)			
Epi Risk Factor NHULTZ	Other Teetler				
Size Vierbaje Survi	EL LLANCE, Herpes is	gM Rubella igG Mumps igG			
Sentinal Provide	PP Herpes Ig				
	Lyme IgG	3 Messies IgM Other			
		a ruy			
To Be Forwarded to CDC: Contact 504-219-4846 for pr		Diagnosis Suspected: Please include One CDC History form per specimen.			
Send To: DHH-OPH Central Lab, 3101 West Napoleon Ave., Metairie, LA 70001					
TO BE COMPLETED BY STATE LABORATORY					
LABORATORY NUMBER: DATE/TIME RECEIVED: TEMPERATURE CONDITION:					

D. Shipping Specimens



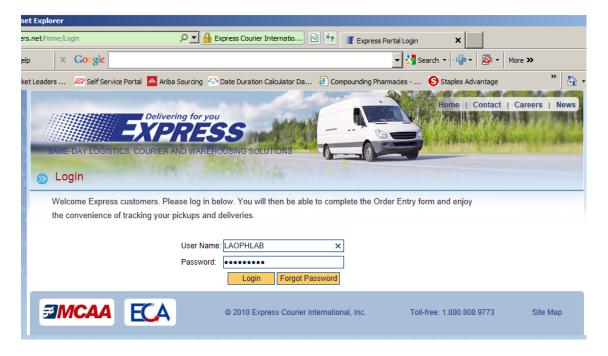
Instructions for entering orders online for Express Courier

The purpose for online order entry is so you can track your deliveries online, but it will also send an email to our staff letting us know you have an order for delivery. This site is for On Call/Special order requests only. You do not need to enter your daily scheduled stops in this location.

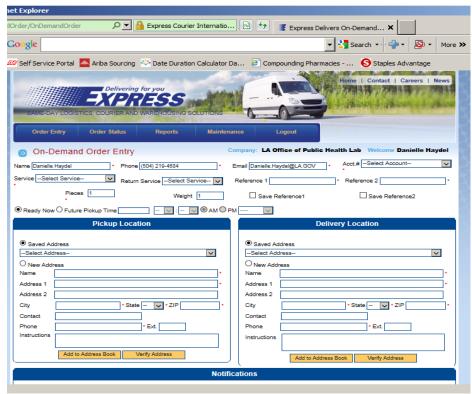
1. Go to www.expressdelivers.net and click on Order Entry/Tracking.



2. Then enter your User Name: LAOPHLAB and password: influenza



3. Your screen will look like this:



4. The information that you first see will default to Danielle. You will need to enter your contact information in place of Danielle's including Phone and Email.

For the account number, please select one of the following – depending on which branch will pick-up/deliver your order request – see chart on item #6.

SHV-40112 BTR-45101 NOLA-48127 LAF-47088

The boxes with the red * are required fields. In the Service field, you will need to select Standard 2 hour service if the facility is within 2 hours of closing, Express 1 hour if it is within 1 hour of closing, otherwise, you can select Economy 4 hour.

There should be no Return Service necessary. Unless you have a specific reference, these fields do not need to be completed.

Please list the number of pieces the courier will pick-up and if there is a weight other than 1 lb.

You can also select the Ready Now button and the time that you need the pick-up to be completed.

- 5. For the Pick-up Location box, you can enter a new location and save it to the address book or you can use an existing location. Several have already been entered. You can see the list by clicking the down arrow.
- 6. For the Delivery Location, follow the chart listed below. The daily On Call deliveries will be delivered to the local Express Branch (first) in order to be transported to the lab.

Please list any special instructions including temperature of the specimen, location of where the specimen will be, special parking instructions, and if there may be a different contact person. Basically, anything a courier would need to know in order to make a successful pick-up.

If you have a special/same day request for supplies, mail, or even a specimen that needs to go directly to a specific facility that same day, <u>PLEASE</u> note that in the instructions and select or add the location that it needs to go to. For example, the lab has supplies that need to go directly to a specific site on that same day, select the lab as the Pick-up Location and add/select the Delivery Location as the site that it needs to go directly to and put the notes in the Instructions box and fill out previous information in items 1-4. You can even add 'SAME DAY' in Reference 1.

Site	Express Courier Delivery Location Branch (this also corresponds to the account number)	ECI Branch Manager	Branch Phone
Baton Rouge Area	11965 Lakeland Park Blvd., Suite 100, Baton Rouge, LA 70809	Luis Crespo	(225) 755 1997
Morgan City, Lafayette, Lake Charles	111 Sunbeam Lane, Lafayette, LA 70506	Michelle Pitts	(337) 237 7706
Houma, Thibodaux, Larose	130 Riverbend Rd. St. Rose, LA 70087	Jeffrey Donnes	(504) 736 0731
Monroe, Shreveport, Natchitoches	5201 Interstate Dr., Unit 3, Shreveport, LA 71109	Harry Schad	(318) 631 0861

- 7. Below the Pick-up and Delivery Locations Box is a Notifications. Within this box, select if you would like to have a Pick-up Complete notification, Delivery Complete notification and enter your email or phone number however you would like to be contacted.
- 8. Once you are finished entering the data, select the Place Order button. This will complete the order and give you a confirmation screen. The order will then be sent to a distribution group within Express for notification of pick-up and delivery.
- 9. Should you have any questions about a branch's capabilities, please contact Luis Crespo at 225-963-0345 or Susan Moss at 205-568-7321.

Other options in eTrac

Under Order Summary you will see Order Status and Order Search. Once you click on those, you can select specific criteria to get the information you need. The Order Summary will show a list of your orders for a specific date range. The Order Search will allow you to look for a specific order based on search criteria that you input.

Under Reporting you will see On Demand Order Summary. When you select this option, another screen will open.

You will able to select Group By – the best way to do this is by account number. Then select the start date and end date. Depending on the type of report you need, you can select different options, even in the Group By field. Once you select your options, click View Report. It will take a minute to generate the report, but you will be able to see your report and our order number for it.

E. Sentinel Surveillance Site Feedback

At the end of the season you will receive a site specific comprehensive report on influenza surveillance. This report will include:

- Information on ILI surveillance (if participated).
- Information on Rapid test result reporting (if participated).
- Information on virologic surveillance: contribution by site to surveillance, descriptive statistics, evaluation of rapid test with site and compared to other sites using the same and other tests.
- Information on other circulating respiratory viruses (if NP swabs are submitted).

